

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
28 October 2004 (28.10.2004)

PCT

(10) International Publication Number
WO 2004/092806 A3

(51) International Patent Classification⁷: **G02F 1/03**

(21) International Application Number:
PCT/US2004/010979

(22) International Filing Date: 9 April 2004 (09.04.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/461.141 9 April 2003 (09.04.2003) US

GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:
24 March 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: PREPARATION OF LIGHT VALVES

(57) Abstract: Light valves which are controlled by temperature are made by rapidly injecting between two closely spaced sheets, of e.g. glass, a low viscosity monomer + solvent solution, and then rapidly polymerizing the monomer to form a solid layer, which is transparent below a specified temperature, and opaque above that temperature. The low viscosity of the monomer solution and its rapid polymerization makes mass production economically practical. Production machinery for these light valves may be adapted from existing machinery that has been made for manufacturing sealed, double pane windows.

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INTERNATIONAL SEARCH REPORT

International application No.

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G02F 1/03

US CL : 359/241

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : Please See Continuation Sheet

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
US-PGPUB, USOCR, USPAT, IBM_TDB

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X — Y	US 6,084,702 (BYKER et al.) 04 July 2000 (04.07.2000) whole document	1, 14
X — Y	US 5,856,211 (TONAZZI et al.) 05 January 1999 (04.01.1999) whole document	2, 4-13, 15-18, 19-23, 41 24, 27, 28, 39, 47
Y	US 6,094,290 (CRAWFORD et al.) 25 July 2000 (25.07.2000) whole document	29-38, 40-46 44-46

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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Date of the actual completion of the international search

23 November 2004 (23.11.2004)

Date of mailing of the international search report.

28 JAN 2005

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
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Alexandria, Virginia 22313-1450

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US04/10979

Continuation of B. FIELDS SEARCHED Item 1:

359/240-242, 245, 247, 250, 253-254, 263, 265, 267, 269, 270-274, 296, 315, 318, 321, 577-578, 601-604, 609, 839, 843; 252/583, 800; 204/290.07; 428/426; 546/257